



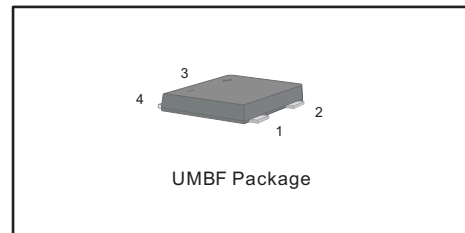
0.6A SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER

FEATURES:

- Glass Passivated Chip Junction
- Reverse Voltage - 100 to 1000 V
- Average Rectified Output Current- 0.6 A
- High Surge Current Capability
- Designed for Surface Mount Application

PINNING

PIN	DESCRIPTION
1	Input Pin (~)
2	Input Pin (~)
3	Output Anode (+)
4	Output Cathode (-)



MECHANICAL DATA

- Case: UMBF
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 45mg/0.0016oz

Maximum Ratings and Electrical characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

Parameter	Symbols	B1	B2	B3	B4	B5	B6	B7	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Average Rectified Output Current at $T_c = 115\text{ }^\circ\text{C}$	I_O	0.6							A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	20							A
Forward Voltage per element @ $I_F = 0.6\text{ A}$	V_F	1.1							V
Maximum DC Reverse Current at Rated DC Blocking Voltage @ $T_a = 25\text{ }^\circ\text{C}$ @ $T_a = 125\text{ }^\circ\text{C}$	I_R	5 100							μA
Typical Junction Capacitance (Note1)	C_j	13							pF
Typical Thermal Resistance (Note2)	$R_{\theta JA}$	110							$^\circ\text{C/W}$
Operating and Storage Temperature Range	T_j, T_{stg}	-55 ~ +150							$^\circ\text{C}$

Note: 1. Measured at 1MHz and applied reverse voltage of 4 V D.C.

2. P.C.B. mounted with 4×1.5"×1.5" (3.81×3.81 cm) copper pad areas.



Fig.1 Average Rectified Output Current Derating Curve

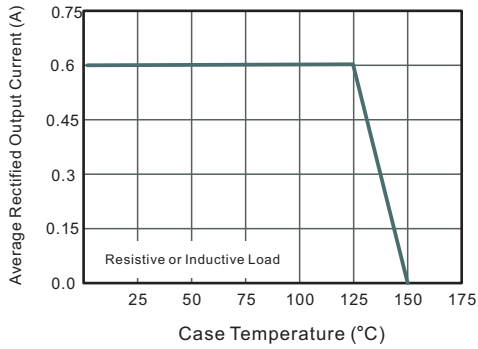


Fig.2 Typical Reverse Characteristics

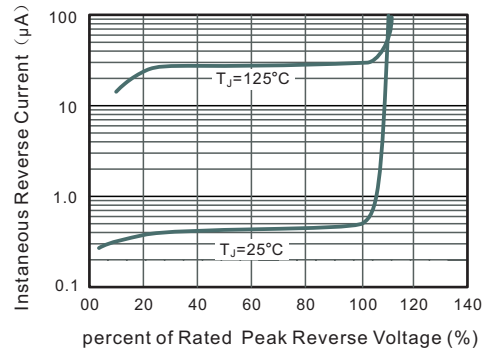


Fig.3 Typical Instantaneous Forward Characteristics

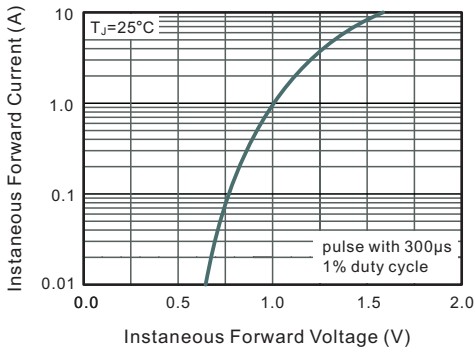


Fig.4 Typical Junction Capacitance

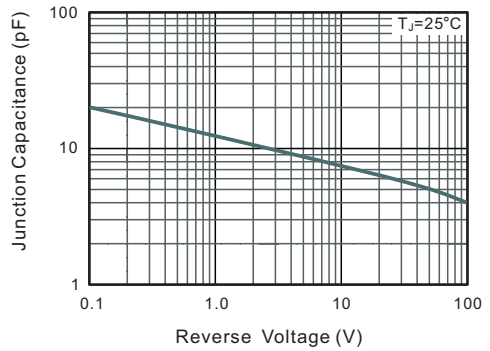
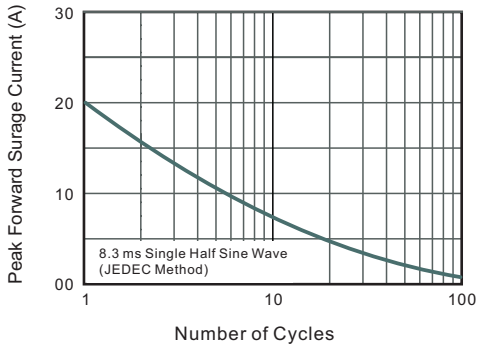


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current





PACKAGE OUTLINE

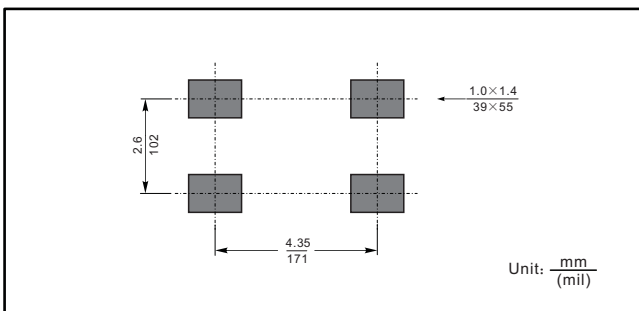
Plastic surface mounted package; 4 leads

UMBF

UMB mechanical data

UNIT		A	C	D	E	B	g	d	e	∠
mm	max	1.4	0.3	4.05	3.9	5.2	0.95	2.8	0.9	5°
	min	1.0	0.1	3.65	3.5	4.8	0.55	2.4	0.5	
mil	max	55.1	11.8	159	153	204	37	110	35.4	
	min	39.3	3.9	143	137	189	21	94	19.6	

The recommended mounting pad size



Marking

Type number	Marking code
B1	B1
B2	B2
B3	B3
B4	B4
B5	B5
B6	B6
B7	B7